

Chrysanthemum plant named 'Redock Orange'

RELATED CULTIVARS

'Redock Orange' is related to 'Redock Dark (#) and 'Redock Salmon' (#). These varieties are all mutants of the original 'Redock' (unpatented).

BACKGROUND OF THE INVENTION

'Redock'. The new plant of the present invention comprises a new and distinct cultivar of chrysanthemum plant that is a natural occurring sport of a parent chrysanthemum named 'Redock' (unpatented). A comparison with Parent chrysanthemum 'Redock' is also made in this application. The new cultivar was discovered as a whole plant mutation in September 1999 by Rob Noodelijk in a controlled environment (greenhouse) in Rijsenhout Holland. The first act of asexual reproduction of 'Redock Orange' was accomplished when vegetative cuttings were taken from the initial selection in November 1999 in Rijsenhout Holland.

SUMMARY OF THE INVENTION

The present invention is a new and distinct variety of chrysanthemum bearing medium sized blooms with orange rayflorets and yellow-green disc florets.

BRIEF DESCRIPTION OF THE DRAWINGS

The present invention of a new and distinct variety of chrysanthemum is shown in the accompanying drawings, the color being as nearly true as possible with color photographs of this type.

Fig. 1 shows a plant of the cultivar in full bloom.

Fig. 2 shows the foliage of the cultivar.

DESCRIPTION OF THE INVENTION

This new variety of chrysanthemum is of the botanical classification dendranthema grandiflora. The observations and measurements were gathered from plants grown in April / May in a greenhouse in Rijsenhout Holland in a photo-periodic controlled crop under conditions generally used in commercial practice. The greenhouse temperatures during this crop were at day-time between 18°C and 25°C and at night 20°C. After a long day period of 14 days the photo-periodic response time in this crop was 47 days. After the long day period to flowering growth retardants were applied 3 times in an average dose of 2.5 gram / liter water. No tests were done on disease or insect resistance or susceptibility. This new variety produces medium sized blooms with orange ray-florets and yellow-green disc-florets blooming on the plant for 4 weeks. This new variety of chrysanthemum has been found to retain its distinctive characteristics throughout successive propagations however the phenotype may vary significantly with variations in environment such as light intensity and temperature. To show the phenotype as described 'Redock Orange' can be planted without assimilation light (minimum level 2500 lux) it can be planted year round under greenhouse conditions in Holland. With assimilation light (minimum level 2500 lux) it can be planted year round under greenhouse conditions in Holland.



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From the cultivars known to inventor the most similar existing cultivar in comparison to 'Redock Orange' is 'Redock'. When 'Redock' and 'Redock Orange' are being compared the following differences and similarities are noticed: The difference of 'Redock' and 'Redock Orange' is the orange ray-floret color for which characteristics 'Redock Orange' has been selected out of 'Redock'. All other characteristics of 'Redock' and 'Redock Orange' are similar.

From other commercial varieties 'Orange Reagan' (USPP 8769) and 'Orange Elite Reagan' (not patented yet) are the most similar. The differences between 'Orange Reagan', 'Orange Elite Reagan' and 'Redock Orange' are (1) Flower form and color. The ray-florets of 'Redock Orange' are more upright, less broad, more pointed and more concave. (2) Vigour. Under the same circumstances the plants of 'Redock Orange' are 20 cm longer. (3) Response time. The response time of 'Redock Orange' is shorter. (4) The disc-floret size of 'Redock Orange' is smaller. (5) Foliage size and color. The foliage of 'Redock Orange' is bigger and more yellow-green.

The following is a description of the plant and characteristics that distinguish 'Redock Orange' as a new and distinct variety. The color designations are taken from the plant itself. Accordingly, any discrepancies between the color designations and the colors depicted in the photographs are due to photographic tolerances. The color chart used in this description is: The Royal Horticultural Society color chart, edition 1995.

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Table 1:Botanical Description of

CULTIVAR 'Redock Orange'

<u>Bud</u>

Size Small, cross-section +/- 0.7 cm height +/- 0.9 cm

Outside Color Greyed - orange 170 C

Involucral bracts 3 rows, length 8 mm, width 3 mm

Involucral bracts among disc-florets Not present

Involucral bracts color Green 147 B

Bloom

Type Single

Height High

Size Medium

Fully Expanded 7.0 cm

Number of blooms per single stem Average of 14

Seeds Not produced

Performance (blooming period) 4 weeks

Fragrance Typical chrysanthemum

Color

Center of the flower (disc-florets)

Immature yellow-green 144 A

Mature yellow-green 151 C

Color of upper surface of the majo-

rity of the ray-florets

Orange 26 B

Color of the lower surface of the

majority of the ray-florets

Yellow-orange 16 B

Tonality from Distance A spray mum with pink flowers and a yellow-

green disc

Discoloration to color To color yellow-orange 16 A

Ray florets

Texture Upper and under side smooth

Number 26 – 28

Cross-section Strongly concave

Longitudinal axis of majority Reflexing

Length of corolla tube Short

Ray-floret length 3.3 cm

Ray-floret width 1.0 cm

Ratio length / width Medium

Shape of tip Pointed, very occasionally round

Disc florets

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Disc diameter 0.8 - 1.0 cm

Distribution of disc florets Numerous, clearly visible at all stages of

flowering

Shape Tubular

Color Yellow-green 144 A

Receptacle shape Conical raised

Reproductive Organs

Stamen (present in disc florets only) Thin 3 mm in length

Stamen color Yellow-green 144 B

Pollen No pollen present

Pollen color Not applicable

Styles (present in both ray and disc Thin

florets)

Style color Yellow-green 144 B

Style Length 4 mm

Stigmas Yellow-green 144 B

Stigma Width

2 mm

Ovaries

Enclosed in calyx

<u>Plant</u>

Form

A spray mum meant for erect culture

Growth habit

Upright

Growth rate

Very vigorous

Height

125 - 135 cm

Internodes

2.5 - 3.0 cm

Spray formation

Corymbiform

Stem Color

Yellow-green 147 B

Stem Strength

Medium

Stem Brittleness

Present

Stem Anthocyanin Coloration

Absent

Peduncle length

Near the top 16 cm, near the middle 23 cm, near

the bottom 28 cm

Peduncle color

Green 147 B

Peduncle, attachment

Brittle

Peduncle, angle with stem

Small, 30 °C

Flowering Response(photo-periodic

47 days

controlled crop, not natural season)

Foliage

Color

Upper side yellow-green 147 A

Under side green 138 B

Size

large; length 12.0 - 14.0 cm,

width 7.0-8.0 cm

Quantity (number per single stem)

30 - 34

Shape

Ovate and deeply lobed

Texture upper side

Fleshy and glabrous

Texture under side

Pubescent

Ribs and	veins	upper	side
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Ribs and veins well developed

Ribs and veins under side

Ribs and veins well developed

Venation arrangement

Palmate

Shape of the margin

Lobed

Shape of Base of Sinus Between

Round

Lateral Lobes

Margin of Sinus Between Lateral

Converging

Lobes

Shape of Base

Rounded

Apex

Mucronate

Table 2: Differences with the comparison Varieties

	'Redock Orange'	'Redock'	'Orange Reagan'	'Orange Elite
				Reagan'
Ray-floret color	Yellow-Orange	Purple 75 A	Greyed-Orange	Yellow-Orange
	16 B		169 A	20B
Flower height	High	High	Flat	Flat
Cross-section of ray-floret	Strongly concave	Strongly concave	flat	Flat
Vigour	Very vigorous	Very vigorous	Vigorous	Vigorous
Plant height	125 – 135 cm	125 – 135 cm	100 – 125 cm	105 – 130 cm